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AMENDMENTS IN THE CLAIMS:

1. (Currently Amended) A loop-type thermosiphon transferring heat from a cylindrical high-temperature heat source using a working fluid, comprising:

an annular evaporator having a heat absorption portion with a curved surface attached to said high-temperature heat source and evaporating said working fluid by depriving said high-temperature heat source of heat through the heat absorption portion;

a condenser located above said high-temperature heat source and condensing the working fluid that has evaporated in said evaporator; and

a pipe connecting said evaporator and said condenser so as to form a loop; wherein

said working fluid that has passed through said condenser and has been condensed is <u>led above said curved surface of said heat absorption portion from an upper portion of said evaporator and is made to fall on an upper portion of said heat absorption portion.</u>

2. (Canceled)

3. (Previously Presented) The loop-type thermosiphon according to claim 1, wherein

a flow resistance of said pipe guiding the working fluid that has evaporated in said evaporator to said condenser is made smaller than a flow resistance of said pipe guiding the working fluid condensed in said condenser to said evaporator.

4. (Original) The loop-type thermosiphon according to claim 1, wherein in accordance with an amount of heat transfer from said high-temperature heat source, if the amount of heat transfer is large, the flow resistance of the pipe from said condenser to said evaporator is made smaller, and if the amount of heat transfer is

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small, the flow resistance of the pipe from said condenser to said evaporator is made larger.

- 5. (Original) The loop-type thermosiphon according to claim 1, wherein a contained amount of the working fluid refers to such a contained amount that 1/3 to 2/3 of a total volume of a possible volume of liquid pool in said condenser at an operation temperature, a volume of the pipe and a volume of the evaporator is filled with a liquid of said working fluid and a remaining volume of said total volume is filled with saturated vapor of said working fluid.
 - 6. (Original) The loop-type thermosiphon according to claim 1, wherein a natural refrigerant is used as the working fluid.
- 7. (Original) The loop-type thermosiphon according to claim 1, wherein any one of carbon dioxide, water, hydrocarbon, ammonia, ethanol, and a mixture thereof is used as the working fluid.
 - 8. (Original) The loop-type thermosiphon according to claim 1, wherein a mixture containing ethanol by at most 60% is used as the working fluid.
- 9. (Currently Amended) A Stirling refrigerator provided with a Stirling cooler, wherein

said Stirling cooler includes the loop-type thermosiphon according to claim 1, said evaporator exchanges heat with a high-temperature portion of said Stirling cooler, and

said condenser is located above said high-temperature portion.